



INDEX

ELECTRONIC FUNDAMENTALS



RCA INSTITUTES

A SERVICE OF RADIO CORPORATION OF AMERICA

INDEX

TO

ELECTRONIC FUNDAMENTALS

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RCA INSTITUTES, INC.
A SERVICE OF RADIO CORPORATION OF AMERICA
HOME STUDY SCHOOL
350 West 4th Street, New York 14, N.Y.

HOW TO USE INDEX

This index is designed to enable the student to locate the topics covered in the Theory Lessons, Experiment Lessons, and Service Practices of the Electronic Fundamentals Course.

The headings and subheadings are listed alphabetically, with each item followed by a location reference. This location reference consists of two parts; a letter and a number, followed by a number or pair of numbers. The letter signifies the particular lesson title:

T	for Theory Lesson,
E	for Experiment Lesson,
S	for Service Practices.

The number immediately following indicates the lesson number. The second part of the reference (a number or pair of numbers) denotes the page number on which the topic is to be found. Where more than one page is devoted to a topic, a pair of numbers is listed giving the beginning and ending pages of the discussion on the topic. For example, take the following item:

Peaking coil,	S 34	24
	T 29	18-19

This means that the discussion of peaking coils can be found in Service Practices number 34, page 24, and also in Theory Lesson 29, pages 18 to 19.

THEORY LESSON TITLES

Lesson Number	Title	Lesson Number	Title
1	Wave Motion and Communication	22	Electron Tube Constants
2	Schematic Symbols and How to Use Them	23	Voltage Amplifier
3	How to Use Color Codes	24	Audio-Power Amplification
4	Electron Theory and Current	25	Bias Methods and Basic Audio-Amplifier Design
5	Ohm's Law and Primary Cells	26	Decibels, Microphones, and Loudspeakers
6	Secondary Cells	27	Detector Circuits
7	Resistance	28	TRF Receivers
8	D-C Circuits	29	Principles of Superheterodyne Receivers
9	Power and Voltage Division	30	Oscillators
10	Magnetism and Electromagnetism	31	Frequency Conversion
11	D-C Meter Theory	32	Wave Propagation and Antennas
12	D-C and A-C Generators	33	Multiband and Commercial Receivers
13	Alternating Current	34	Volume and Tone Control Circuits
14	Inductance	35	Special Circuits
15	Capacitance	36	Principles of Frequency Modulation
16	A-C Circuits	37	FM Detectors
17	Rectification	38	Introduction to Television
18	Basic Filters and Time Constants	39	Principles of Television Receivers
19	Triodes, Multigrids, and Multipurpose Tubes	40	Principles of Color Television
20	Power Supplies I		
21	Power Supplies II		

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1	How to Solder	17	Rectification Experiments
2	How to Do Advanced Soldering	18	Filter Experiments
3	Starting the Multimeter Assembly	19	Triode Experiments
4	Electrostatic Experiments	20	Signal Generator Assembly I
5	Continuing the Multimeter Assembly	21	Signal Generator Assembly II
6	Experiments with Cells	22	Electron Tube Experiments
7	Meter Assembly and Measurement of D.C.	23	Voltage-Amplifier Experiments
8	Resistance Measurement	24	Power Amplifier Experiments
9	Power Measurement	25	Bias Experiments
10	Magnetic Experiment	26	Impedance-Matching Experiments
11	Calculation of Meter Multipliers and Shunts	27	Detector Experiments
12	Meter Assembly and A-C Measurement	28	Radio-Frequency Experiments
13	Generator and Transformer Experiments	29	I-F Amplifier Experiments
14	Inductance Experiments	30	Oscillator Experiments
15	Capacitance Experiments	31	Frequency-Conversion Experiments
16	Resonance Experiments	32	R-F Stage, Antenna, and Shielding Experiments
		33	Alignment of Superheterodyne Receivers
		34	Decibel Measurement Experiments

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(Continued)

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36	Bandwidth Experiments	39	Troubleshooting Experiments III
37	Troubleshooting Experiments I	40	Troubleshooting Experiments IV

SERVICE PRACTICES TITLES

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2	How to Use Tools	21	Checking and Servicing Switches
3	How to Identify Radio and TV Hardware	22	Phono and Recorder Motors
4	How to Install a Radio Receiver	23	Tape Recorders
5	How to Erect Antennas	24	Phono Players and Pickups
6	How to Repair and Polish Cabinets	25	Vacuum-Tube Voltmeter
7	How to Read Meters	26	Microphones and Loudspeakers
8	How to Understand Meter Readings	27	Public Address Systems I
9	How to Remove Chassis and Locate Simple Defects	28	Public Address Systems II
10	How to Test Tubes	29	Transistor Fundamentals
11	Dial Cords and Tuning Systems	30	Transistor Applications
12	Battery and Three-way Portable Receivers	31	AM and FM Signal Generators
13	How to Test Resistors	32	Cathode-Ray Oscilloscope I
14	How to Test Inductors	33	Cathode-Ray Oscilloscope II
15	How to Test Capacitors	34	High Fidelity
16	How to Use Catalogs and Service Data	35	How to Check Fades and Intermittents
17	Servicing When Receiver Is Not at Fault	36	Using the Signal Generator and Signal Tracer to Troubleshoot
18	Circuit Tracing	37	Installing and Servicing Auto Radios
19	How to Troubleshoot a Radio Receiver	38	FM Receivers
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